Nugorny Y, A.F.	
The state of the s	
Guardiso ulirsia. D. Sh. Rozina, B. L. Clobus, R. P. Lattorskif, P. A. Veronia, A. F. Tseltlenok, T. I. Genera- lova, P. D. Vakukhnyi, A. F. Nascrnyi, and H. S. Rubin- zon. U.S.S.R. 166,836, Aug. 25, 1957. CaCN, is treated zon. U.S.S.R. 160,836, Aug. 25, 1957. CaCN, is treated with NH,NO <sub>2</sub> . To prevent explosion, an intermediate melt is prepd. coats. Halb, CaCN <sub>3</sub> , and NH,NO <sub>3</sub> in a ratio of 1:2:14. To this is gradually added CaCN, while the melt is kept at 62-73.  M. Hoseh  1-4E4	

CHUKHNO, A.A.; KOZLOV, G.A.; KASHCHENKO, A.I.; AGANBEGYAN, A.G.; VOLKAW, M.I.; ZHUKOVSKIY, Ya.M.; NAGORNYY, A.F.; TSAGCLOV, N.A.; KOVILEVA, M.F.; PAVLOV, P.M.; ATLAS, M.S.; KATS, A.I.; NAROVLYANSKIY, W.G.; ANCHISHKIN, I.A.; SPIRIDONOVA, N.S.; KRONROD, Ya.A.; GULIHGV, I.A.; BREGEL', E.Ya.; ROZENMAN, Ye.S.; VARTANYAN, K.A.; NOVIKOV, V.A.; GATOVSKIY, L.M.

Structure and content of the course on the economics of socialism.

(MIRA 15:6)

Vop. ekon. no.0:57-143 Je 162.

1. Kiyevskiy gosudarstvennyy universitet (for Chukhno). 2, Vysshaya partiynaya shkola pri TSentral'nom komitete Kommunisticheskoy partii Sovetskogo Soyuza (for Kozlov, Volkov, Zhukovskiy). 3, Yaroslavskiy gosudarstvennyy pedagogicheskiy institut (for Kashchenko, Narovlyanskiy, Sulimov). 4 Institut ekonomiki i organizatsii promyshlennogo proizvodstva Sibirskogo otdeleniya AN SSSR (for Aganbegyan). 5. Institut povysheniya kvalifikatsii prepodavateley obsnchestvennykh nauk pri Kiyevskom gosudarstvennom universitete (for Nagornyy). 6. Moskovskiy gosudarstve nyy universitet (for TSasolov, Spiridonova). 7. Akademiya obshchestvennykh nauk pri TSentral'nom komitete Kommunisticheskoy partii Sovetskogo Soyuza (for Kovaleva). 3. Leningradskiy finansovo-ekonomicheskiy institut (for Pavlov). 9. Moskovskiy finansovyy institut (for Atlas), 10, Nauchno-issledovatel'skiy institut truda (for Kats). 11. Institut ekonomiki AN SSSR (for Anchishkin, Kronrod), 12. Moskovskiy ekonomiko-statisticheskiy institut (for Bregel'). 13, Moskovskiy energeticheskiy institut

CHUXHNO,---(Continued) Card 2.

(for Rozenman). 14. Armyanskiy sel'skokhoz/aystvenny, institut (for Vartanyan). 15. Permskiy politekhnicheskiy institut (for Novikov). 16. Chlen-korrespondent Akademii nauk SSSR, glavnyy redaktor zhurnala "Voprosy ekonomiki" (for Guskiy).

(Economics--Study and teaching)

Collycial, A.A.; VAGEER, I.V.; EAGENTY, A.G., rod.

[Lestin; the fuel system of diese: engines | Reticinal separatury dizeral. Riev, Izdevo "Grozhai," Town. 128;.

(Ella 17:8)

AUTHORS: Dankova, N. M. and Nagornyy, A. G.

68-58-6-11/21

TITLE.

Corrosion of Apparatus and Preventive Measures on the Joke Oven Gas Desulphurisation Flant by the Sodium Arsenate Method (Korroziya apparatury i mery bor'by s neyu v tsekhe mysh'yakovc-sodovcy

seroochistki)

PERIODICAL: Koks i Khimiya, 1958, Nr 6, pp 44-48 (USSR)

ABSTRACT: An excessive corrosion of the gas purification plant necessitated a thorough investigation of the problem. This was carried out in

two directions: 1) studies of the state of the apparatus and pipelines in order to discover parts which were attacked by corrosion and the nature of the damage; 2) observations of the state of specimens of materials and protective coatings submitted to the action of a corresponding media On the basis of this work some measures to prevent corrosion were taken. In the paper the results of the work which was carried out are described in some letail. It

was found that the degree of corrosion depends on the concentration of sulphur compounds in the gas and on the gas throughput.

Card 1/2 When the plant is overloaded in respect of the gas throughput, corrosion becomes so intensive that in a very short time the plant has to be stopped (as was the case in the Zhdanov Plant where the second part of the plant was not ready on time). The most intense

corrosion was observed in stationary places where no stirring action

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68-58-6-11/21

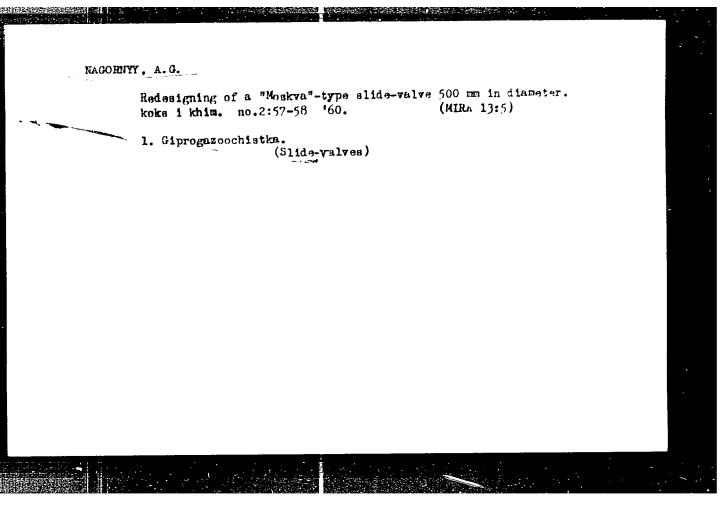
Corrosion of Apparatus and Preventive Measures on the Coke Oven Gas Desulphurisation Flant by the Sodium Arsenate Method

takes place, in the places of the highest concentration of hydrogen sulphide in the solution (bottom parts of scrubbers) and of electrically welded joints. When designing new plants the following preventive measures are recommended: a) protection coatings of the bottom part of the scrubbers and regenerators; b) electrically welded joints where possible should be made from both sides (outside and inside); c) parts of the plant submitted to the action of a corrosive solution (overflow pipes of spray coolers, air bubblers in regenerators, etc.) chould be made from low alloy stainless steels; 10 beams supporting hurdles should be made of larger dimensions as as to provide some reserve for corrosion; encounceting pipes welded into the gas mains and into scrubbers should be made from thick walled tubes etc. The degree of stability of some types of special steels and coatings was established. There is one table.

- 1. Chemical plants--Corrosion 2. Gases--Purification
- 3. Corrosion--Countermeasures 4. Sodium arsenate--Applications

ASSOCIATION: Zhdanovskiy koksokhimicheskiy savod (Zhdanov Coal-tar Chemical Plant)

5. Sulfur compounds--Corrosive effects



KOVALYUSHKO, S.P.; BELYAKOV, M.I., red.; TOGOBITSKAYA, H.V.

[Tohobits'kz, N.V.], red.; KOVALENKC, O.I., red.;
DOBROVOL'SKIY, O.A.[Dobrovol's'kyi, O.A.], red.;
NAGORNYY, A.G.[Nahornyi, A.H.], red.; LEVITSKAYA, C.P.
[Levyts'ka, H.P.], red.; CHEREVATSKIY, S.A.[Cherevats'kyi, S.A.], tekhn. red.

[Manual on production planning and organization on collective and state farms] Dovidnyk po planuvanniu i organizatsii vyrobnytstva v kolhospakh i radhospakh. Kyiv, Derzhsil'hospvydav URSR, 1963. 935 p.

(MKRA 16:12)

(Ukraine--Farm management--Handbooks, manuals, etc.)

NAGOBNYY, A.I.; SOBOLEVA, Ye.D.

Changes occurring in the properties of natigorite upon heating.

Ogneupery 18 no.2:81-88 F 153. (MIRA 11:10)

1. Institut egneuperov i stroymaterialov KazAN.

(Antigorite) (Refractory materials)

NAGORNYY, A.I.; KHOKHOL'KOVA, L.A.

Some ceramic properties of montmorillenite clays from the Pavledar and Ural deposits. Izv.AN Kazakh. SSR Ser.gor.dela, met. i streimat. no.2:18-29 154. (MIRA 9:6) (Pavlodar Province--Montmorillenite)(Ural Hountain region--Montmorillenite).

THE STATE OF THE S

NAGORNYY A.I. KHOKHOL'KOVA, L.A.; LOBANOVA, Ye.T.

Mineral wastes of the coal and chemical industries as raw material for bricks made by the autoclave method. Izv.AN Kazakh.SSR Ser.gor. met. i stroimat. no.2:123-128 '54. (MIRA 9:6) (Waste products) (Brickmaking)

NAGORNYY, A. I., and SOBOLEVA, YL. D.

\*Problem of the Utilization of the Magnesium Silicate Rocks of Kazakhstan for Forsterite Refractories\*

Izv. AN Kazakh SSR, No 126, Ser. Gern. Dela, Metallurg., Stroym terialov, No 2, 40-47, 1954, (Kazakhstani resume)

The authors clarify under laboratory conditions the possibility of obtaining forsterite refractories made of serpentinites and magnesites from kazakhstan. They present microscopic and thermographic investigations of opniclites and magnesties. Heating of ophiclites (100-1400°C) leads to a sharp growth in mechanical strength and in sarinkage phenomena. (RZhGeol, No 6, 1954)

SO: Sum 492, 12 May 55

# MAGORNYT, A.I. The use of plastic clays from central Kazakhstan. Izv. AN Kazakh. SSR Ser.gor.dela, met. i stroimat. no.2:129-135 '54. (MLRA 9:6) (Kazakhstan--Clays)

NAGORNYY, A. I., KHOKHOL'KOVA, L. A., AND LOBANOVA, YE. T.

Mineral Wastes From the Coal and Chemical Industries as Raw Materials for the Production of Pressurized Building Materials

Describes the results of an investigation on the production of building materials from mineral wastes and lime wastes from the chemical industry. Steaming in an autoclave produced samples having a compression strength of 150-170 kg/cm<sup>2</sup>. (RZhKhim, No. 1, 1955) <u>Izv. AN Kazakh SSR.</u> No. 126, 1954, 123-128

SO: Sum. No. 744. 8 Dec 55 - Supplementary Survey of Soviet Scientific Abstracts (17)

NAGORNYY A.Z.
USER/ Miscellaneous - Ceramics manufacture

Card 1/1

Pub. 123 - 7/16

Authors

Negornyy, A. L.; Frolov, V. E.; Lebedev, M. A.; Khokhol'kova, L. A.; and Mikhaylyants, O. A.

Title

Manufacture of ceramic sewer pipes from Lengersk infusible clay

Periodical !

Vest. AN Kaz. SSR 12, 63-67, Dec 1954

Abstract

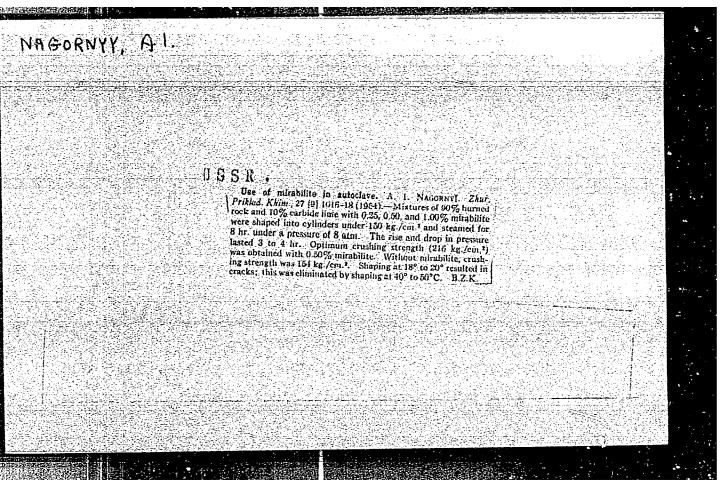
The possibility of manufacturing high-quality ceremic sever pipes from infusible Lengersk clays are discussed. The technological process employed in the manufacture of refractory tubes is described. Two USSR references (1941 and 1952). Tables.

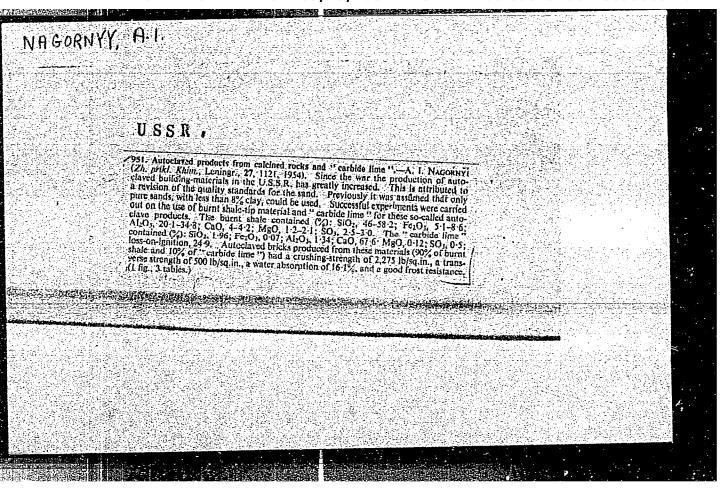
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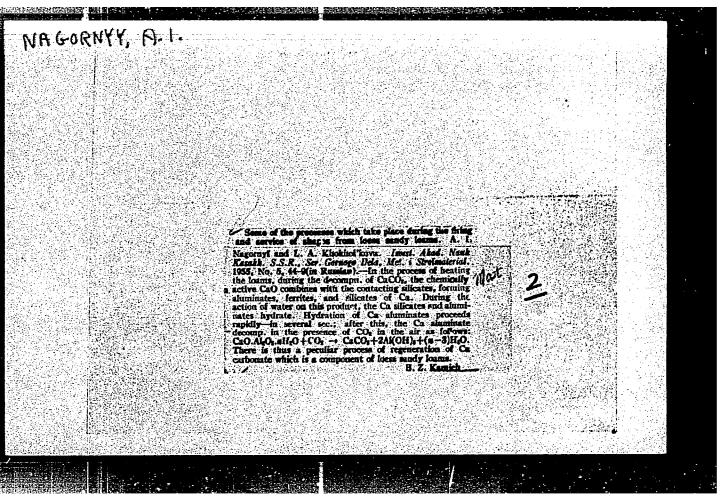
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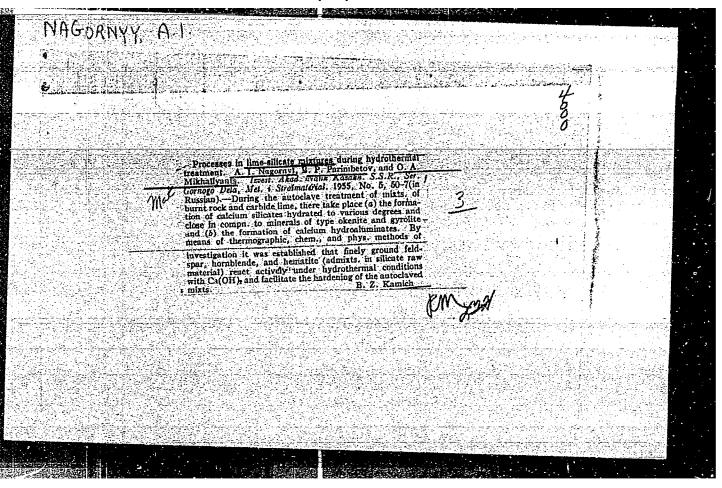
. M. I. Goryaev, Active Member of Acad. of Sc. Kaz-SSR

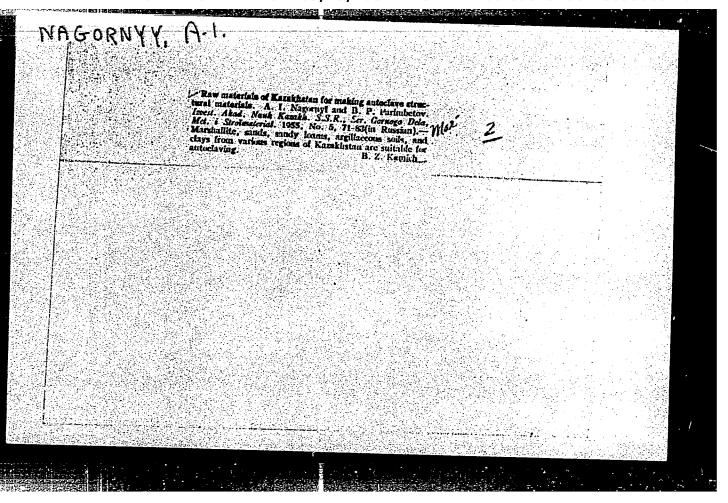
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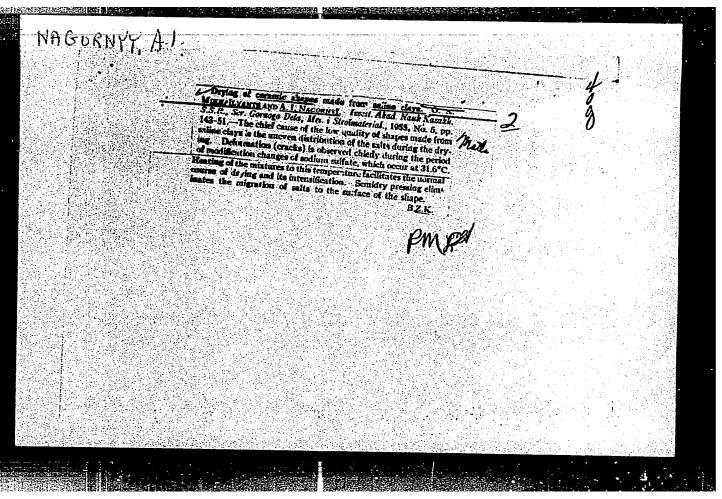


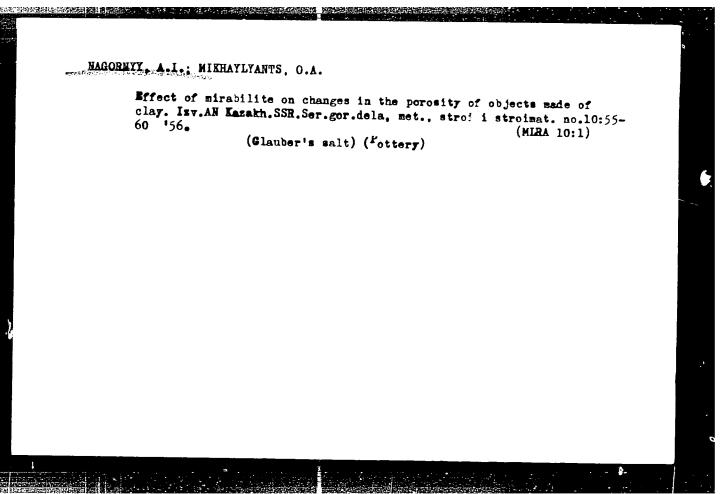


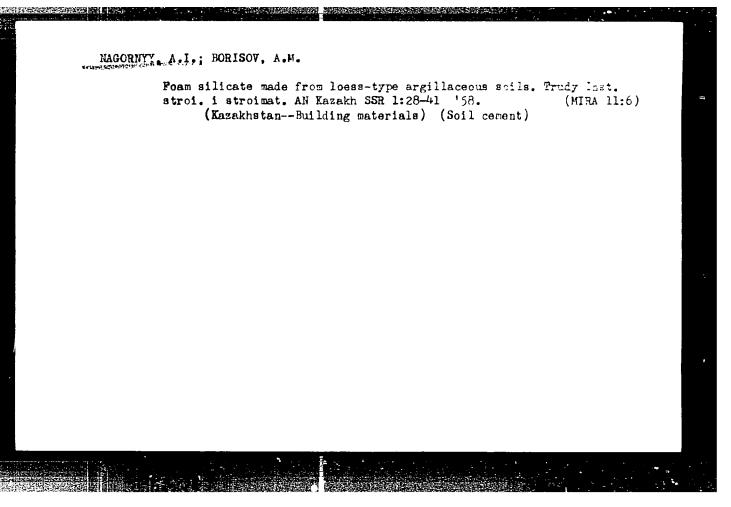












NAGORNYY, A.I.; BORISOV, A.M.

Microporite made of losss-like clayer soils of eastern Zazakhstan.

Trudy Inst. stroi. i stroimat. AN Kazakh SSR 2:251-255 '59.

(Building materials)

(Building materials)

- NAGORNYY, A.I.; KHUSNUTDINOV, Z.D.

Use of slags from the Bulkhash copper works to obtain mage "wadding" and "pumice". Trudy Kazakh. fil. Asia no.2:115-124 '60.

(Kazakhstan-Lightweight concrete)

(Kazakhstan-Lightweight concrete)

NAGORNYY, A.I.; KHOKHOL'KOVA, L.A.

Cellular ceramics made of Chegan clay and Karaganda argillite.
Trudy Kazakh. fil. ASia no.2:134-137 '60. (MIRA 15:2)

(Kazakhstan—Ceramic materials)

Phase displacement in losselike clayer soils during the formation of ceramic materials. Stek.i ker. 17 no.4:29-31

Ap '60. (Ceramic materials)

(Ceramic materials)

NACORNYY, A.I., kand. tekhn. nask; Besenin, P.I., inzh.; Krylov, S.A., inzh.

First plant in Zazakhetan; romeasing loess-type loam. Stroi. mat.
10 no.10:35-36 C '64.

(MIRA 16:2)

NAGORNYY, A.I., kand.tekhn.nauk; BRAGIN, B.A., inzh.: MARRONROHKOV, Yu.A., inzh.; KULEMZIN, K.N., inzh.; BELOBORODOVA, S.C., inzh.

Effect of additives on the crystallization of molten me allurgical slags and rock materials, Stek. 1 ker. 22 no.3:9-11 Mr 405.

(MIRA 18:10)

1. Alma-Atinskiy gosudarstvennyy nauchno-issledovatel (skry institut stroitel nykh materialov.

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K. M.Ya. ..., b.k.; far out, i.m.

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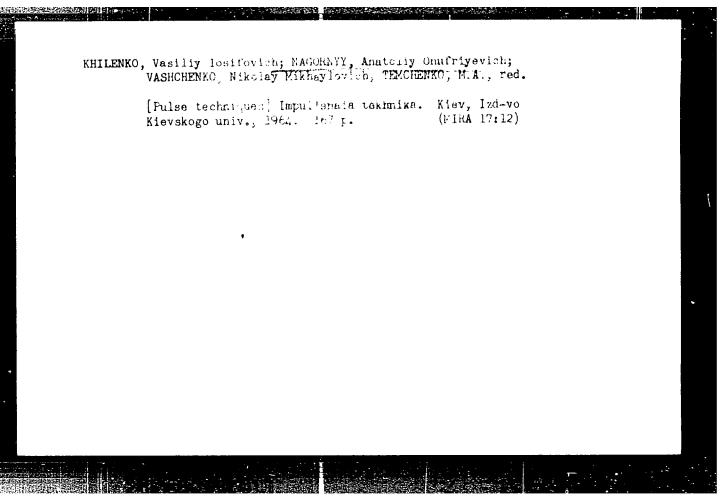
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	AUTHOR: Nagornykh, L. G.	
*	org: <u>Odmurtsk State Pedagogical Institute, Izhevsk</u> (Udmurtskiy gosudarstvennyy pedagogicheskiy Institut)	
	TITLE: On the derivation of the heat conduction equation of a crystal lattice at high temperatures by dimensional analysis	
	SOURCE: Fizika tverdogo tela, v. 8, no. 2, 1966, 587-588	
	TOPIC TAGS: heat equation, dimension analysis, crystal lattice, ionic crystal, phonon, thermal conduction	
	ABSTRACT: The author follows methods developed by P. W. Bridgmann (Dimensional Analysis, Yale University Press, 1931) and separates the quantities that are important for the propagation of heat by lattice waves. A simple model of a monovalent ionic crystal is used. A functional relation is postulated between the thermal conductivity of the crystal due to the phonons, the atomic mass, the temperature, the ion charge, and the crystal lattice constant, by means of the II theorem	
	Card 1/2	

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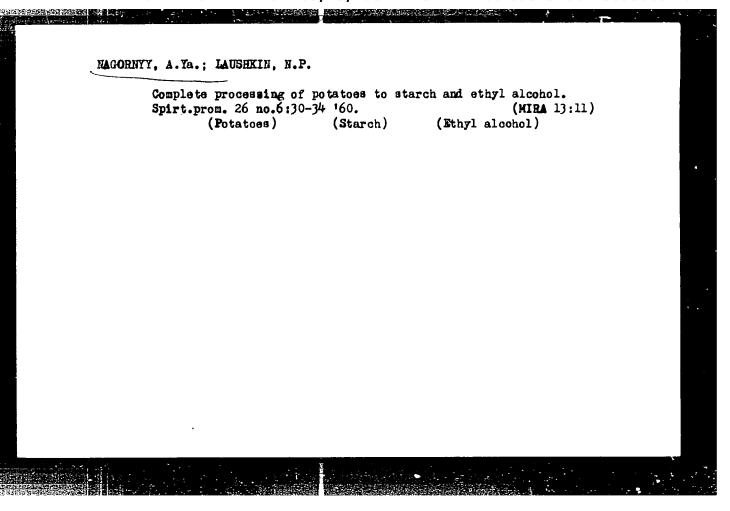


NAGORNYY, Aleksandr Vasil'yevich, prof. [deceased]; NIKITIN,
V.K.; BULANKIN, Ivan Nikolayevich [deceased]; SIROTININ,
N.N., prof.; MAKHIN'KO, V.I., dots.; PARINA, Ye.V.,
dots.; POLEZHAYEV, Ye.F., red.; LYUDKC VSKAYA, N.I., tekhn.
red.

[Problems of aging and longevity] Problems starenia i doigoletiia. Moskva, Medgiz, 1963. 754 p. (MIRA 16:11)

1. Chlen-korrespondent AN Ukr.SSR (for Nagorny). 2. Akademiya nauk Ukr. SSR (for Bulankin). 3. Deystvitel'nyy
chlen AMN SSSR (for Sirotinin).

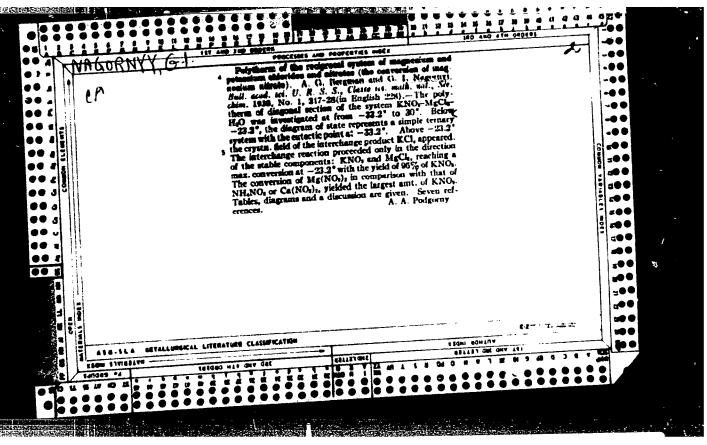
(AGING) (LONGEVITI)



PONCHAREVA, A.A., tekhn. red.; FEDOTOVA, A.F., tekhn. red.;

[Interesting questions in geography, manual for extra-curricular work] Zanimatel nye voprosy po geografii; posobie dlia vneklasenoi raboty. Moskva, Gos. uchebno-pedagog. izd-vo M-va prosv. ESFSR, 1958. 149 p. (MIRA 11:10)

(Geography-Examinations, questions, etc.)

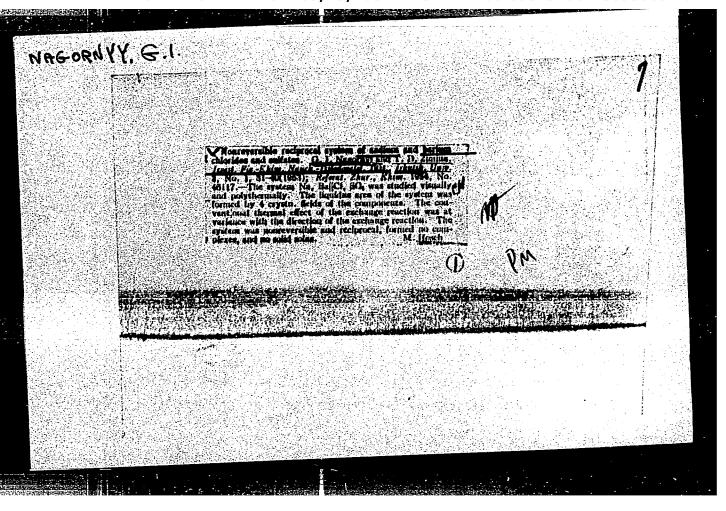


NAGORNYY, G. I.

Mbr., Inst. General and Inorganic Chemistry im. H. S. Burnakov, Dept. Chem. Sci., Acad. Sci., -1943-.

"On the Solubility and the Reaction of Acid Anhydrides in Systems with Metal Haliden", Iz. Ak. Nauk SDSR, Otdel. Tekh. Nauk, No. 5, 1943.

Inst. General Inorg. Chem., Acad. -1943-.



HELYAYEVA, V.A.; DRITS, V.A.; ZAKHVALINSKIY, M.N.; LARINA, V.A.; NAGORNAYA, Ye.F.; NIKULINA, S.Ye.; NAGORNYY, G.I.; SEMIUSOVA, T.N.

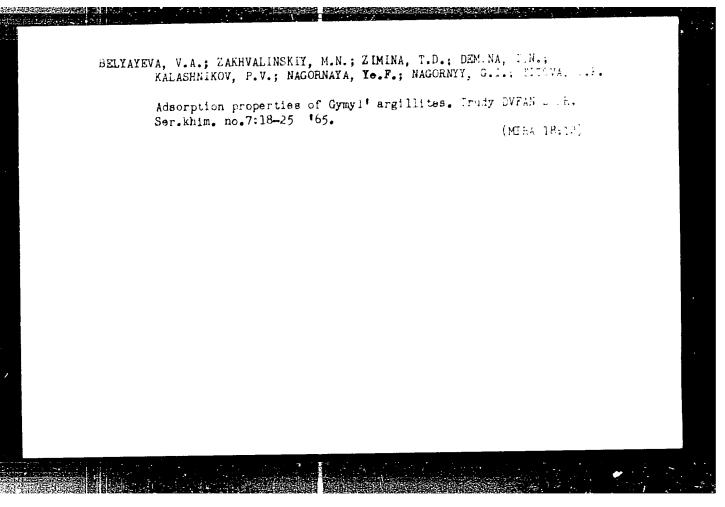
Characteristics of clays of the Troshkovskiy deposits of the Irkutsk Province. Izv. Fiz.-khim. nauch.-issl. inst. Irk. un., 5 no.1:252-289 \*61. (MIRA 16:8)

(Irkutsk Province-Glay-Analysis)

ZIMINA, T.D.; BERGMAN, A.G.; NAGORNYY, G.T.

Reciprocal system consisting of chlorides and sulfates of sodium, calcium, and barium. Zhur. neorg. k.im. 10 no.9:2145-2151 3 '65.
(MIRA 18:10)

1. Irkutskiy gosudarstvennyy universitet i Rostovskiy-na-Donu institut sel'skokhozyaystvernogo mashinostroyeniya.



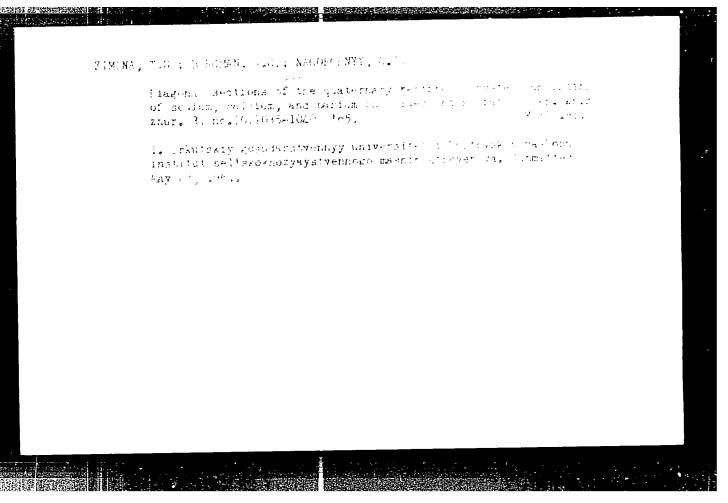
PINKELISHTEYN, M.s., BERGMAN, A.G., MANURUT, M.I.

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NAGGRNYY, G.K.; KHOLOPTSEV, V.P.; KAPLINA, Ye.G.

Operation of the dephenolizing installation at the Moscow Coke-Oven Gas Plant. Koks i khim. no.2:44-48 '55. (MLEA 9:3)

1. Moskovskiy koksogazovyy savod. (Moscow--Phenols)

NAGORNYY, GK.

sov/68-59-5-13/25

AUTHORS: Kaplina, Ye.G., Kolodyazhnyy, I.V. and Nagornyy, G.K.
TITLE: Experience in the Operation of an Ammonia-Lime Plant with

an External Reactor (Opyt raboty ammiachno-izvestkovogo

otdeleniya s vynosnym reaktorom)

PERIODICAL: Koks i khimiya, 1959, Nr 5, pp 34-38 (USSR)

ABSTRACT: Difficulties encountered in operating the ammonia-lime plant with an external reactor and settling tank and their

solution are described. The main difficulty was the

precipitation of calcium sulphate in the second

distillation column. To prevent this the temperature in the reactor and settling tank was increased (by 2-3 °C above the temperature in the column) by increasing the pressure under which they were operating. In addition the outlet of the mixture of liquor and lime from the reactor into the settling tank was made from the upper part of the reactor (Fig 4) which maintained a constant

level of the mixture in the reactor and secured a

Card 1/2

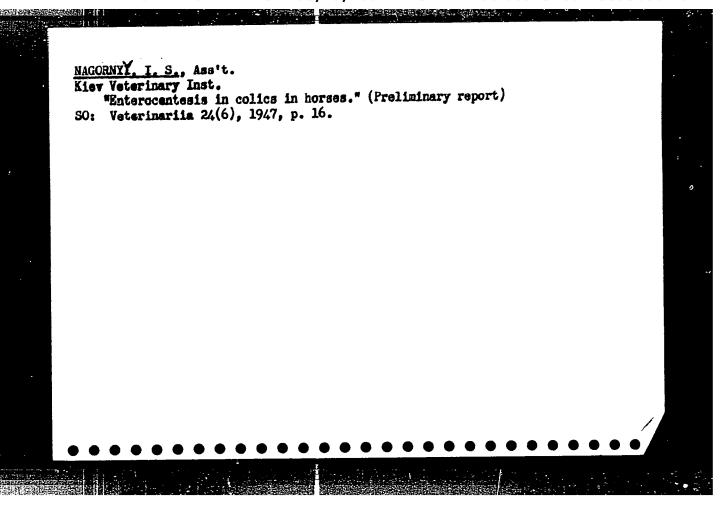
50V/68-59-5-13/25

Experience in the Operation of an Ammonia-Lime Plant with an External Reactor

higher degree of decomposition of combined ammonia salts. There are 4 figures and 1 table.

ASSOCIATION: Moskovskiy Koksogazovyy zavod (Moscow Coke-Gas Works)

Card 2/2



NAGORNYY, I.S. Asst Professor (Kiev Vet Inst)

"Application of Tissue Therapy in Complex with Other Means of Treating Diseases of the Genital Apparatus of Agricultural Animals"

Report given at 13th Inter-VUZ (Higher Educational Insts.) Scientific-Industrail Conference, held February 1956 at Kief Vet Inst.

NACORNYY, Ivan Sergeyevich [Nahornyi, I.S.]; PRIMAK, Aleksey
Yakovlevich[Prymak, C.IA.]; ANDREYEVSKIY, V.Ya.
[Andriievs'kyi, V.IA.], dots., red.; EOBRZHANSKIY, V.M.,
[Dobrzhans'kyi, V.M.], red.; FOTOTSKAYA, i.A.[Potots'ka,
L.A.], tekhn. red.

[Udder diseases in cows] Khvoroby vym'ia u koriv. Kyiv,
Derzhsil'hospvydav URSR, 1962. 90 p. (MIRA 16:5)

(Udder--Diseases)

NAGORNYY, L.I., insh.; SKRIPNIK, I.T., insh.

Methods of computing and designing the cross section of shaped wires for locked-coil wire rope construction. Stal' 25 no.10:964-965 0'65. (MIRA 18:11)

1. Khartsyzskiy staleprovolochno-kanatnyy zavod.

CHERVETSOV, V.V.; MAGORNYY, L.Ya.

Multichannel telemetering system with temporary separation of channels equipped with semiconductor devices. Izv. vys. ucheb. zav.; radiotekh. no.3:294-300 My-Je '58. (MIRA 11:7)

1.Rekomendovana kafedroy teoreticheskoy radio tekhniki L'vovskogo politekhnicheskogo instituta.

(Prospecting--Geophysical methods) (Telemetering) (Transistors)

SOV/142-58---3/30 Nagorry y, L.Ya. AUTHOR: Analysis of the Parameters of Transistory Triode Stage TITLE: by the Conformal Conversion Method (analiz arametrov kaskada na poluprovodnikovom triode metodom konieranykh preobrazovaniy) PERIODICAL: Izvestiya vyssnikh uchebnykh zavedeniy - nadiotekhnika, 1J58, Nr 4, pp 4J2-410 (USSR) The paper describes a conformal conversion method for ABSTRACT: the analysis of a high-frequency amplifier with junction transistors in a case where the characteristic parameters of the transistor, the load resistance and the signal source aplear as complex values. A junction transistor can be considered where signals are small, as a linear four pole, which is described by a system of a equations, connecting the input and output currents and voltages. Such a four pole can be described by 1d equation systems. Knowing one equation system, the other parameters of an equivalent four oce Card 1/4

SOV/142-58-4-3/30

Analysis of the Parameters of Transistory Prioce Stage by the Conformal Conversion Method

SERVICE AND ASSESSMENT OF THE PROPERTY OF THE

can be easily ascertained. On the basis of the characteristic (arameters of the transistor, measured over broad frequency range, and of general four page theory, the transistor stage can be analytically calculated or exterimentally analyzed. The author examines the average case when all transistor parameters, the load resistance and the signal source resistance, represent complex values. The transistor amplifier stage is re, resented as a four ; cie. When analyzing the am, iifier stage, a gra, hic method is used, based on conformal conversion with the help of a fractional function, derived from the stage's basic parameters. This {ra,nic delineation gives the following results: 1) With a resistance load varying from 5 to on the injut and outjut resistances of the stage have a caracitive nature. E) When the load resistance or signal source resistance have a purely inductive character (at a frequency of J. & Mc), in a specific range of values, the active components of the input and output resistances are negative

Carc 2/4

107/142-58-4-3/30

Analysis of the Parameters of Transistory Trioge Stage by the Conformal Conversion Method

for the load resistance and the signal rewree resistance. This produces unstable operation in the state under certain conditions. 6) The stage works in a stable fashion, where there is a jurely capacitive load. The input and output resistances have a capacitive character. 4, with the neil of nemographs, the characteristic resistances of the stage's input and output can be determined. The nomographs are cardulated for a frequency of 0.2 Mc. The author gives nomogra, as for the variation of the input resistance or the stage, or the frequency and the load resistance, and of the amplification ratio with the cascade voltage -126V. Formulae must be used from the reneral four pole theory, to investigate the amplifier stage parameter with transittors. These for wise our to expressed by any characteristic parameters of the trunsistor, according to which are known. Then it is relatively easy to form nomographs by using the fonformal conversion method. Analysis and calculation

Card 3/4

SOV/14: ~ 58-4-3/30

analysis of the Parameters of Transistory Trioce Stage by the Conformal Conversion Method

are much easier to carry out with the help of these nomographs than by the use of analytical methods. There are 6 graphs, I circuit diagram, I table and the references, but of which are Soviet, I english and I brench.

ASSOCIATION: Kafedra radiopriyemnyka ustroystv n'vovskogo politekh-

nicneskogo instituta (Chair of madio Reception

Equipment, L'vov resytechnical institute.

SUBMITTED: December 18, 1957 (initially)

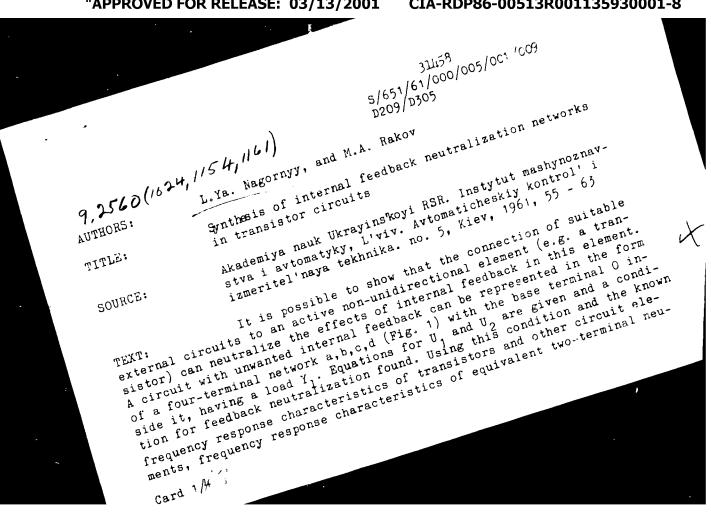
and January 24, 1958 (after revision)

Caru 4/4

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NAGORNYY, L.Ts.; RAKOV, M.A.

Layout for obtaining large time delays in transistor circuits.
Avtom.kont.i izm.tekh. no.4:121-123 '60. (MIRA 13:8)

(Transistor circuits) (Pulse techniques (Electronics))
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31458 \$/651/61/000/005/001/009 D209/D305

Synthesis of internal ...

tralizing networks are calculated. A method of determining approximate immitance of any two-terminal network element is given. As an example of constructive network synthesis, neutralization of the internal feedback of a two-stage transistor amplifier (Fig. 2) is examined. It is assumed that the characteristic conductances of both transistors are known. Indeterminate matrices of the conductances are given for both transistors. The determinate matrix of conductance is obtained directly from Fig. (2) and the total algebraic addition is found. The operation with algebraic addition renders it possible to choose the quantity, connection points and to determine the character of frequency relationships of separate neutralizing networks. Finally, analyzing the algebraic addition an expression is obtained which becomes equal to zero under certain conditions. Fig. (3) depicts one of the methods of internal feedback neutralization. Here the feedback in the first transistor is neutralized by means of a bridge circuit. The negative feedback in the second transistor is neutralized by means of a transformer and a conductance  $Y_{\mathbf{k}2}$ . In this way the amplifier is converted into a unidirectional device. The above method of constructive synthesis can be applied to circuits with thermionic val-

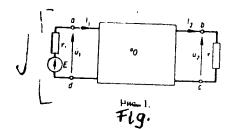
Synthesis of internal ...

S/651/61/000/005/001/**0**09 D209/D305

ves working on VHF and to problems in electronic circuits operating in linear ranges. There are 3 figures and 18 references: 12 Soviet-bloc and 6 non-Soviet-bloc. The 4 most recent references to the English-language publications read as follows: A.D. Stern, C.A. Aldridge, A.W. Chow Internal feedback and neutralization of transistor amplifiers. Proc. IRE, v. 43, no. 7, 1955; G.Y. Chu, Unilateralization of junction-transistor amplifiers at high frequencies Proc. IRE, v. 43, no. 8, 1955; D.F. Tuttle Network synthesis, V.I.N.Y., Wiley, 1958. E.A. Guillemin, Synthesis of passive networks N.Y. Wiley, 1957

SUBMITTED:

October 20, 1960



Card 3/4 .

# NAGORNYY, L. Ya. Dependence of the principal circuit parameters on the changes in the parameters of one of its elements. Elektrosviaz' 15 no.6:42-52 Je '61. (Electric networks) (Transistor amplifiers)

PECHUK, V. I., kand. tekhn. nauk; NAGORNYY, L. Ya. [Nahornyi, L. IA.];
TARATUKHINA, G. P. [Taratukhina, H. P.]; PRADED\_SADOVSKIY, D. D.
[Pradied\_Sadovs'kyi, D. D.]

Tensometric measurement of pressure. Khim. prom. [Ukr.] no.1:
47-52 Ja\_Mr '62. (MIRA 15:10)

1. Institut avtomatiki Gosplana UkrSSR.

(Strain guages)

S/106/62/000/002/006/019 A055/A101

9,3230

Nagornyy, L. Ya. AUTHOR.

TITLE:

Relative variation of the fundamental parameters of networks due to the variation of n parameters in their component elements

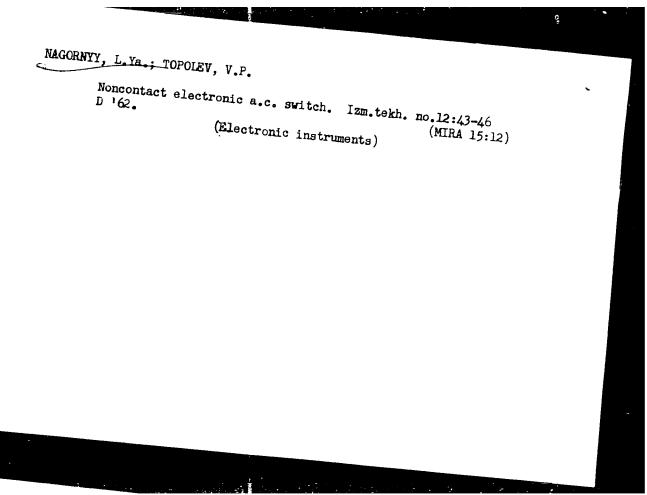
PERIODICAL: Elektrosvyaz', no. 2, 1962, 36 - 44 mne author deduces approximate formulae giving the relative variation of the fundamental parameters of transistorized or electron tube networks (for instance, the input or output admittance) when this variation is determined by the variation of n (i.e. more than one) parameters included in the elements composing these networks. Assuming that the determinant of the matrix of the examined network is known, the author represents the network as a four-pole and using the matrix determinant, he derives the formulae for the relative variation of the network; fundamental parameters. These formulae are expressed, in a general form, through the matrix determinant, its algebraic "complements" and the increments of the network's parameters, these parameters being resistance of a two-terminal element, characteristic admittance of a transletor, etc. Formulae are obtained for the relative variation of the input admittance, the output ad-

card 1/2

NAGGRNYY, L.Ya., kand.tekhn.nauk; TOPOLEV, V.P.

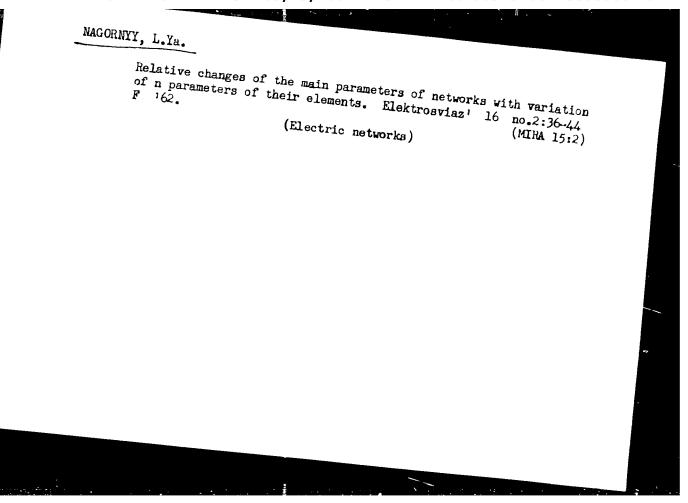
Noncontact standard alternating voltage switch for weighing devices. Avtom.i prib. no.3:66-68 Jl-S'62. (MIRA 16:2)

1. Institut avtomatiki Gosplana UkrSSR. (Electric switchgear)



Contribution to the theory of amplifiers with multichannel feedback. Isv. vys. ucheb. zav.; radiotekh. 5 no.4:506-514 (MRA 16:6)

1. Rekomendovana Institutom avtomatiki UkrSSR. (Amplifiers (Electronics))



9,3240 (1040,1139,1154)

3377. S/103/62/023/001/009/014 D201/D304

AUTHORS:

Il'nitskiy, L.Ya., and Nagornyy, L.Ya. (Kiyev)

TITLE:

A capacitive feedback differentiating ampilfier

PERIODICAL: Avtomatika i telemeknanika, v. 23. no. 1, 1362, 91 3

TEXT: by using the generalized method of nodal voltage analysis the authors analyze the differentiating amplifier with capacitive feedback, as shown in Fig. 1. The four-pole A, with shorted lower terminals, is the amplifier of the differentiator,  $Y_1$  the internal admittance of the differentiated voltage source e(t).  $C_1$  the differentiating capacitance and C2 - the feedback capacitance. The analysis is made under the following idealizing assumptions. The amplifier does not introduce non-linear or frequency distortions the input impedance of the amplifier is infinite the output impedance dance is zero; the gain is independent of frequency the frequency and amplitude responses are linear and that of the internal source resistance is zero. It is shown that the theoretical analysis of the amplifier makes it possible to determine its basic parameters

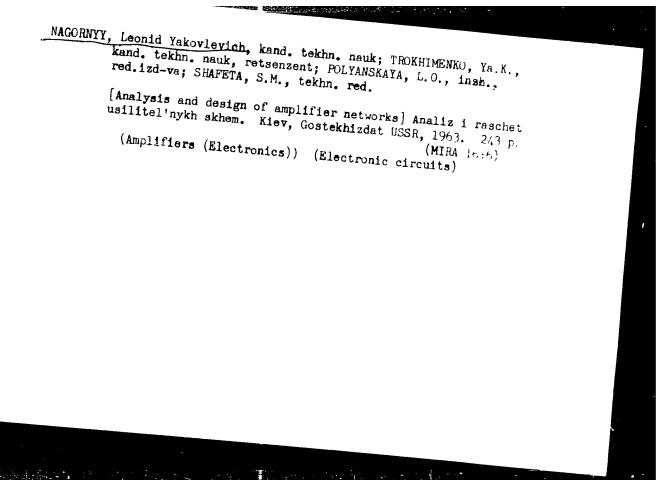
Card 1/3

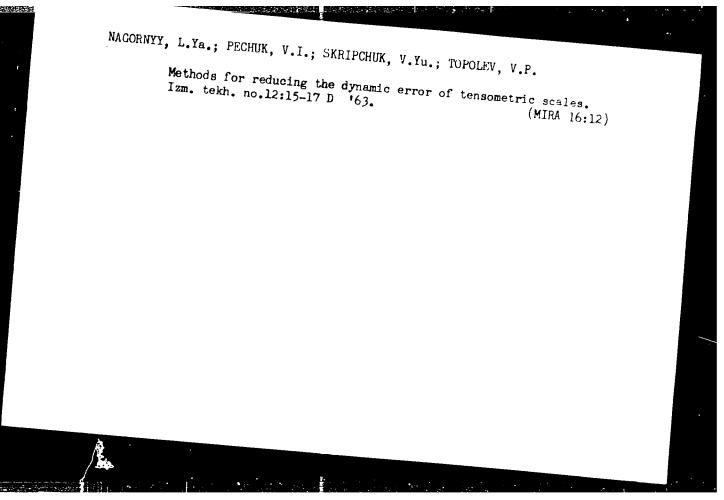
A capacitive feedback differentiating... 33770 S/103/62/023/001/009/014 D201/D304

such as sensitivity and the differentiation time constant. These parameters are introduced into the calculation formulae as the  $r \cdot s$ pective algebraic complements and determinants of the conductivity matrix. Any changes thus introduced into the amplifier circuit do not result in additional complication of the calculations. A most suitable circuit may thus be chosen for a given performance and the synthesis of differentiating arrangements can thus be easily made. The analysis shows that owing to the instability of the circuit, no ideal differentiation is possible. If the Routh-Hurwitz stability criterion has to be satisfied, no exact differentiation is possible If a stability factor determined from the required accuracy, with which the derivatives have to be evaluated, is introduced, the per formance is ipso facto impaired. The analysis is illustrated by the design of a two stage differentiating amplifier which shows that the sensitivity of such an arrangement with negative feedback 18 about 66 times greater than that without feedback. There are 2 fl gures, and 7 references: 6 Soviet-bloc and 1 non-Soviet-bloc

SUBMITTED: March 24, 1961

Card 2/3



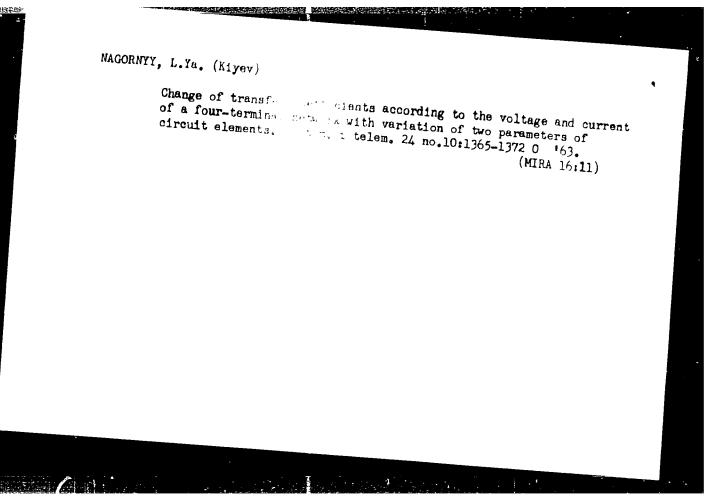


NAGORNYY, L.Ya.

Relative instability of the principal parameters of an amplifier.

Izv. vys. ucheb. zav.; radiotekh. 6 no.5:514-523 S-0 '63.

1. Rekomendovana Institutom avtomatiki Gosplana UkrSSR.

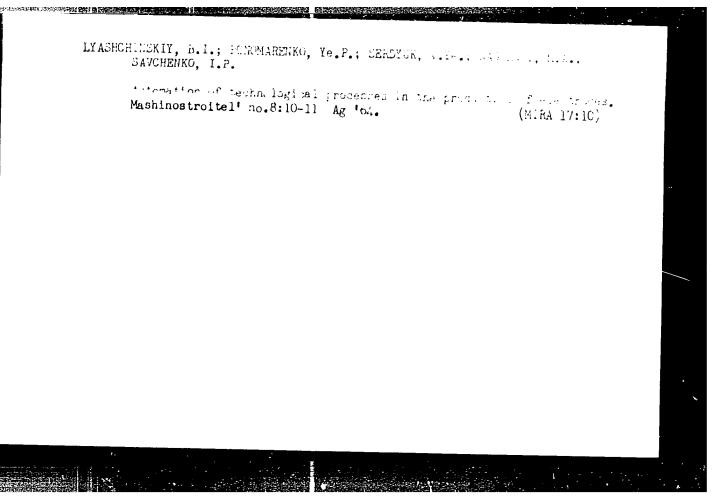


NAGORNYY, L.Ya., kand.tekhn.nauk; SIN\*KOV, M.V., inzh.

Computer system for determining the optimum order of operation of units in an electric power system. Energ. 1 elektrotekh. prom. (MIRA 18:3)

ACCESSION NR: AP5006641: S/0146/65/008/001/0096/01/04  AUTHOR: Nagornyy, L. Ya.; Il'nitskiy, L. Ya.  TITLE: Generalized parameter differentiators and integrators 160
SOURGE: IVUZ. Priborostroyeniye, v. 8, no. 1, 1965, 96-104
TOPIC TAGS: differentiator, integrator
ABSTRACT: The sensitivity, time constant, structural error, and performance factor of a differentiator or an integrator are regarded as its fundamental parameters. The performance factor Q shows how many times the output voltage
of a differentiator is higher than the output voltage of a simplest (CR or RL) differential circuit under identical conditions. The generalized method of nodal voltages is used to develop formulas for the above parameters. Only the
admittance matrix and the circuit nodes across which the functional element is connected need be known. The resulting fundamental-parameter formulas

. 42456-65 ACCESSION NR: AP5006641			<u>-</u> / -	
expressed in terms of the functional reactive element, a determinant, and its signed minors are rather general and can be used in practice for electron-tube or semiconductor circuits of any configuration. Orig. art. has: 3 figures and 29 formulas.				
ASSOCIATION: Kiyevskiy in	astitut grazhdanskogo vo	ozdushnogo flota (Kiev Civil		
Aviation Institute)				
SUBMITTED: 13Nov63	ENCL: 00	SUB CODE: EC		
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NAGORNYY, M.T., prof.; MAGDIYEV, T.Sh., kand. med. nauk

Errors and hazards in biliary tract surgery. Ehirordia 39 no.11:
9-15 N '63.

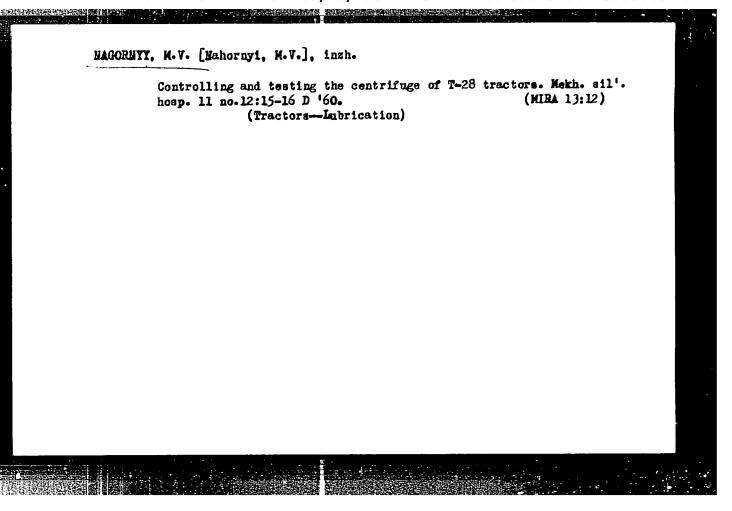
1. Iz kafedry gospital'noy khirurgii (zav. - prof. M T. Nagornyy:
Dagestanskogo meditsinskogo instituta.

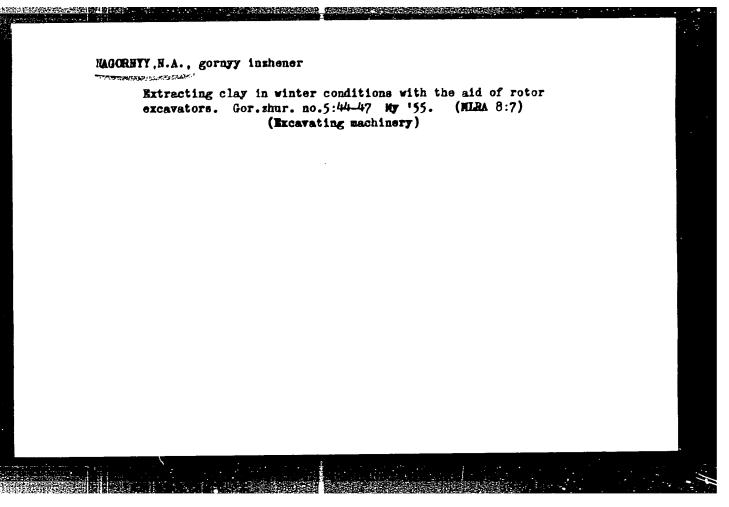
MAGORNYY, M.V. [Mahornyy, M.V.], inzh.-mekhanik

Attachment to USIN-1 stands for testing fuel pumps of DT-24 and 22 T-28 tractors. Mekh.sil'.hosp. 11 no.2:22 F '60.

(MIRA 13:6)

(Fuel pumps--Testing)





NACORNYY, N. I. (Veterinary Surgeon, Ulyanovsk Saion, Kirovograd Oblast')

The use of milk and penicillin in stachyobotriotoxicosis of horses"

Veterinariya, Vol. 38, no. 10, October 1961, pp. 81-89

USSR/Mathematics - Algorithm Theory

21 May 53

"Strenghtening the Theorem of Reduction (Adduction) in the Theory of Algorithms,"
N. M. Nagornyy

DAN SSSR, Vol 90, No 3, pp 341-342

Strengthens the theorem gi ven by A. A. Markov (Trudy Matemat In-ta imeni Steklova, 38 (1951)) as a consequence of the theorem on algorithm reduction, that each normal algorithm over algorithm A is equivalent relative to A to a certain normal algorithm in the alphabet A cup (a,b), where a and b are letters not belonging in A. The theorem permits one to reduce any normal algorithm over alphabet A to an equivalent, relative to A, normal algorithm in a two-letter expansion of alphablet A. Acknowledges attention of Prof A. A. Markov. Presented by Acad V. I. Smirnov 18 Mar 53.

NAGORNYY N.M.

16(1)

PHASE I BOOK EXPLOITATION

SOV/1707

Akademiya nauk SSSR. Matematicheskiy institut

Problemy konstruktivnogo napravleniya v matematike; sbornik rabot, vyp. 1 (Problems Connected With the Construction Trend in Mathematics; Collection of Articles, Nr 1) Moscow, Izd-vo AN SSSR, 1958. 348 p. (Series: <u>Its</u>: Trudy, t. 52). 2,500 copies printed.

Ed.: N.A. Shanin; Resp. Ed.: I.G. Petrovskiy, Academician; Deputy Resp. Ed.: S.M. Nikol'skiy, Professor; Tech. Ed.: R.A. Arons.

PURPOSE: This book is intended for mathematicians.

COVERAGE: The book is a collection of works presented at the seminar on mathematical logic of the Leningrad Branch of the Matematicheskiy institut imeni V.A. Steklova (Mathematical Institute imeni V.A. Steklov) of the Academy of Sciences, USSR. The articles deal primarily with problems connected with the constructive trend in mathematics. A detailed study is made of the theory of algorithms and constructive mathematial logic. The book is divided into

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Problems Connected With the Construction (Cont.)

SOV/1707

three main parts: I. The General Theory of Algorithms and Its Application to the Theory of Associative Calculations. II. Constructive Mathematical Logic. III. Constructive Mathematical Analysis.

TABLE OF CONTENTS:

PART I. THE GENERAL THEORY OF ALGORITHMS AND ITS APPLICATION TO THE THEORY OF ASSOCIATIVE CALCULATIONS

Nagornyy, N.M. Certain Generalized Concepts of a Normal Algorithm 7

Introduction 1. Definition of -type algorithms 2. Closure of -type algorithms 3. -type algorithms and normal algorithms 4. -type algorithms and normal algorithms (continuation) 5. Canonical -type algorithms 6. Composition of -type algorithms 7. Branching of -type algorithms 8. Recursion of -type algorithms 9. -type algorithms 10. 6 -type algorithms References

Nagornyy, N.M. On the Minimum Alphabet of Algorithms Over a Given Alphabet

66

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Problems Connected With the Construction (Cont.)

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Detlovs, V.K. The Equivalence of Normal Algorithms and Recursive Functions

75

I. Introduction 1. Brief History of the problem 2. Formulation of fundamental theorems II. Algorithms of recursive functions 3. Recursive functions 4. The algorithms of primitive recursive function 5. The algorithms of an operator of the smallest number 6. The decidability partially recursive function III. The recursiveness of algorithmic functions 7. The device of arithmetization 8. The recursiveness of a substitution 9. The recursiveness of algorithmic functions of one argument 10. The recursiveness of functions of n-arguments IV. The equivalence of Normal and recursive algorithms 11. Normal algorithms of arithmetization 12. The equivalence of normal and recursive algorithms. References

Orlovskiy, E.S. Certain Problems of the Theory of Algorithms 140 Introduction I. Construction of normal algorithms inverse to a given algorithm 1. Formulation of provable theorems 2. Construction of unknown algorithms 3. Proof of theorem 2 II. Construction struction of a universal algorithm system 4. A universal algorithm system 5. Fundamental lemmas 6. Proof of fundamental lemmas. References

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Seytin, G.S. Associative Calculation With the Unsolvable Problem of Equivalence	172
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Introduction 1. Deducibility from hypothesis 2. Normal formulas 3. Deduction of conclusions 4. Properties of deductions of conclusions 5. The connection between deducible formulas and deducible conclusions 6. Deducibility algorithm for normal conclusions 7. Examples References	
Shanin, N.A. On the Constructive Meaning of Mathematical Reasoning	226
1. Constructive mathematical objects 2. Historical information. Critique of S.C. Kleene's theory 3. Fundamental logicomathematical languages 4. Algorithms of the behavior of a constructive problem 5. An algorithm for deciphering elementary formulas 6. On the meaning of supporting formulas 7. Some information from the constructive theory of sets 8. Certain extensions of fundamental logicomathematical languages	
Card 4/5	

Problems Connected With the Construction (Cont.)

SOV/1707

PART III. CONSTRUCTIVE MATHEMATICAL ANALYSIS

Markov, A.A. On Constructive Functions

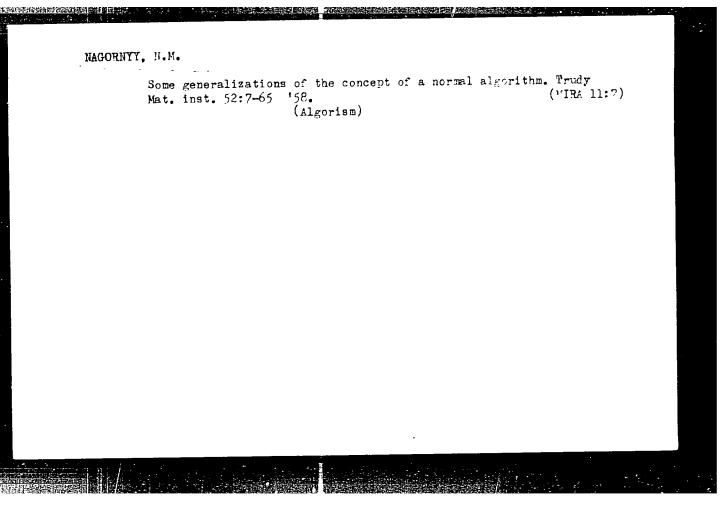
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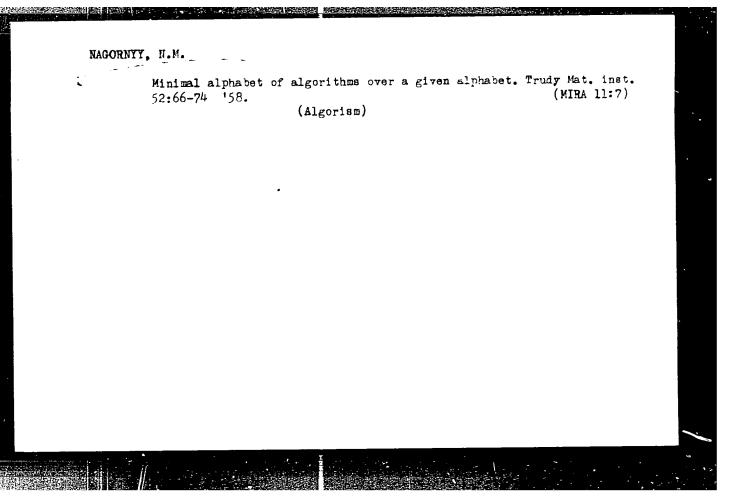
Introduction 1. Recursive functions with rational values 2. Regularly converging sequences 3. Constructive real numbers 4. Constructive sequences of real numbers 5. Constructive functions of a real variable. References

AVAILABLE: Library of Congress

Card 5/5

LK/ad 6-15-59





MAGARIK, V.A.; NACORNYY, N.M., otv. red.; YAKOVKIN, M.V., red.; POFOVA,
N.S., tekhn. red.

[Standard programs for the BESM-2 digital computer of the
Computer Center of the Academy of Sciences of the U.S.S.R.]
Standartnye programmy BESM-2 vychislitellyogo tsentra AN SSSR.
Moskva, Vychislitellyni tsentr AN SSSR. NG.2. 1960. 33 p.

(MIRA 14:8)

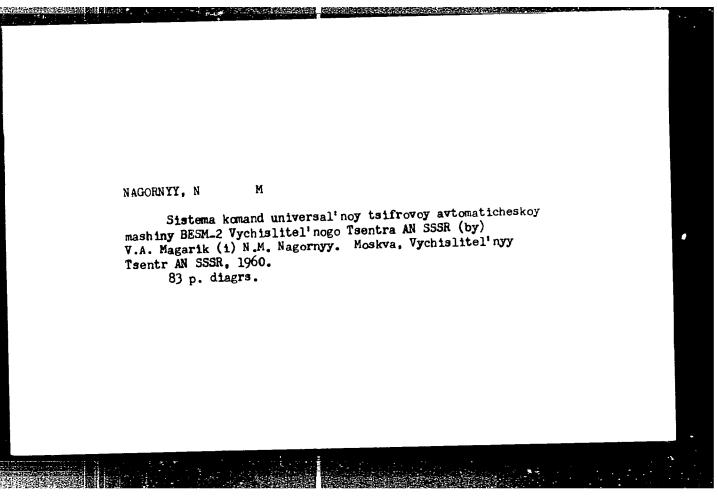
(Electronic digital computers) (Programming (Electronic computers))

ZAK, L.A.; CHIBISOV, V.V.; NAGORNYY, N.M., otv. red.; ORLOVA, I.A., red.; KORKINA, A.I., tekhn. red.

[Test programs for the HESM-2 computer] Testovye programmy dlia mashiny HESM-2. Moskva, Vychislitel'ny tsentr AN SSSR, 1961.

24 p. (MIRA 14:8)

(Electronic digital computers—Testing)



PHASE I BOOK EXPLOITATION

50V/5880

Magarik, V. A., and N. M. Nagornyy

Sistema komand universal'noy tsifrovoy avtomaticheskoy mashiny BESM-2 Vychislitel'nogo tsentra AN SSSR (Instruction System for the BESM-2 Universal Digital Computer) 2d ed., rev. Moscow, Vychislitel'nyy tsentr AN SSSR, 1961. 88 p. 3000 copies printe'.

Sponsoring Agency: Akademiya nauk SSSR. Vychislitel'nyy tsentr.

Resp. Ed.: V. M. Kurochikin, Candidate of Physics and Mathematics; Ed.: I. A. Orlova; Tech. Ed.: A. I. Korkina.

PURPOSE: This book is primarily intended for personnel of scientific and industrial organizations which use computers. It may also prove useful for training programmers.

Card 1/10

SOV/5880 Instruction System (Cont.) COVERAGE: The book describes the control and instruction system for the BESM-2 universal digital automatic computer of the Computation Center, Academy of Sciences USSR. The modification of this system which were recommended by the BESM-2 conferences held in Riga and Leningrad have been incorporated into the socoaedition. No personalities are mentioned. There are no reterences. TABLE OF CONTENTS: Foreword 9 Ch. I. Information Coding Q 1. Organization diagram of a computer 10 2. Memory Card 2/10

44370

S/044/62/000/012/047/049 A060/A006

AUTHORS:

Kozhukhin, G.I., Nagornyy, N.M., Pottosin, I.V.

TITLE:

Principles of organization and utilization of a program library

PERIODICAL: Referativnyy zhurnal, Matematika, no. 12, 1962, 60, abstract 12V441 (Vychisl. matematika, Collection 7, 1961, 161 - 169)

TEXT: At the present time two directions have taken shape in the domain of programming automation: the method of compilers and the creation of program libraries. The latter method, making greater use of manual programming, is largely free of the drawbacks of the former (greater volume of data, the finite number of types of admissible operators, the impossibility of extending the compiler language without altering the compiler program itself). In the opinion of the authors, the ideal method would be one combining both of these directions. The principles are proposed for organizing a program library created for that purpose. The viewpoint adhered to considers the library program as a set of blocks with a certain distinguished block (the master program itself). The programmer needs to know only the essential meaning of the blocks, while the remaining data concern-

Card 1/2

Principles of organization and utilization of ....

\$/044/62/000/012/047/049 A060/A000

ing them (the possible initial addresses, the program of calculating the block length as a function of the parameters, data as to the interrelations with the blocks of other programs) are required only by the automation system operating that library. Both compilers and compiling and interpreting systems may form such a system. As applied to the projected ANFON(ALGOL) language an address to a library program with number N could have the form: procedure N (M<sub>1</sub>, M<sub>2</sub>, ..., M<sub>k</sub>)  $\Longrightarrow$  (M<sub>k+1</sub>, M<sub>k+2</sub>, ..., M<sub>g</sub>), where M<sub>1</sub>, ..., M<sub>k</sub> are the names of the input blocks, and M<sub>k+1</sub>, ..., M are the names of the output blocks and the output symbol. All the information relating to the problem is here established from the coincidence of the identifiers of the respective blocks.

V.L. Yevteyev

[Abstracter's note: Complete translation]

Card 2/2

27874

s/020/61/140/001/008/024 C111/C222

16.6800

AUTHOR:

Nagornyy, N.M.

TITLE:

The realization of functions in alphabets by algorithms of a

certain class

PERIODICAL: Akademiya nauk SSSR. Doklady. v.:40, no. 1, 1961, 52-55

The author investigates the question for the minimal alphabet of normal algorithms over the given alphabet. The paper uses notions and notations of (Ref. 1: A.A. Markov, Tr. Matem. inst. imeni V.A. Steklova AN SSSR,42 (1954); Ref. 2: N.M. Nagornyy. Tr. Matem.inst.imeni V.A. Steklova AN SSSR, 52,7 (1958); Ref. 3: N.M. Nagornyy, Tr. Matem.inst.

imeni V.A. Steklova AN SSSR. 52,66(1958)). A constructively given partial transformation of the set of words in A is called a function in the alphabet A. Let f be a function in A and CC be an algorithm over A. Let Or realize f if for every word P in A it holds an algorithm over A. Let of realize I if for every word F in A it not the conditional (Ref. !) equality of (P)  $\cong$  f(P). Two systems of words in A with the same number of terms are called matched. Let P be a word in A and  $U = (U_1, \dots, U_n)$ ,  $V = (V_1, \dots, V_n)$  be two matched systems of words

in A. Let  $P_0 = P$ ,  $P_{i+1} = \sum_{i=1}^{n} (P_i, U_{i+1}, V_{i+1})$  (i = 0,1,..., n-1). Here Card 1/4

CIA-RDP86-00513R001135930001-8" **APPROVED FOR RELEASE: 03/13/2001** 

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The realization of functions ..

 $P_{i}(P,Q,R)$  means the result of the substitution of R instead of the first appearance of Q in P,  $P_{i}$  is not defined if Q does not occour in P, of (Ref. 1). P is denoted by the symbol  $P_{i}(P,U,V)$ . Let P be a word in A and  $P_{i}(P,U,V)$  and  $P_{i}(P,U,V)$  and  $P_{i}(P,U,V)$  are defined in A function f in A is called entrance of the word  $P_{i}(P,U,V)$  and  $P_{i}(P,U,V)$  are defined and  $P_{i}(P,U,V)$  and  $P_{i}(P,U,V)$  are defined and  $P_{i}(P,U,V)$  a

27874

S/020/61/140/001/008/024 C111/C222

The realization of functions ....

in Q, f(Q) and f(QR) are defined and  $f(QR) \neq f(Q)R$ . Such a function can be realized in the alphabet A by no algorithm of the type  $\mathcal G$ .

Theorem 6: If  $n \ge 2$  then a function  $f_n$  in A which satisfies the condition  $f_n(P) = P$ . P (P - word in A), can be realized in A by no algorithm of the type 6.

Theorem  $^{11}$ : The minimal alphabet of the algorithms of the type  $\,^{5}$  over the alphabet A is a one-letter-extension of A .

The author points to pecularities of the algorithms of the type  $\tilde{\mathcal{I}}$  in a one-letter - alphabet.

Analogous questions are treated for algorithms defined with the aid of the Turing-machines. Turing-machines having expanding finite bands are used for the definition of the algorithms. It is stated that the defined algorithms - so-called T - algorithms - have the alphabet A itself as the minimal alphabet over the alphabet A.

Card 3/4